

Express Mail No. EL828142306US Date of Deposit: October 10, 2001

## MICROBIAL IDENTIFICATION DATABASES Abstract

Methods of compensating for drift in fingerprint spectra of microorganisms caused by changes in their environment are disclosed. These methods of compensating for drift permit identification of microorganisms from their fingerprint spectra regardless of the environment from which the microorganisms are obtained. Furthermore, the disclosed methods may be used to construct coherent databases of fingerprint spectra that may be expanded even though the standard database conditions are no longer experimentally achievable. In particular embodiments, methods of compensating for drift in pyrolysis mass spectra, constructing coherent pyrolysis mass spectral databases, and identifying bacteria from their pyrolysis mass spectra are disclosed.

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